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Chula Vista, CA 91914
Phone 619.216.1444
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PRO COMP SUSPENSION

Suspension Systems that Work!

Part # 57093 & 57094
Toyota T-100 4WD IFS
4” Suspension System

This document contains very important information that includes warranty information and instructions for resolving problems you may encounter. Please keep it in the vehicle as a permanent record.

Box 1 of 3-**PN 57093/57094-1**

Part #	Description	Qty.	Illus.	Page
90-3375	**Front A-Arm Drop Brkt. - Drvr.**	**1**	**2**	**6**
90-3377	**Front A-Arm Drop Brkt. - Pass.**	**1**	**2**	**6**
90-3371	**Rear A-Arm Drop Brkt. - Pass.**	**1**	**2**	**6**
90-3372	**Rear A-Arm Drop Brkt. - Drvr.**	**1**	**2**	**6**
90-57093-15	**Compression Strut - Drvr. (57093)**	**1**	**8**	**9**
90-57093-16	**Compression Strut - Pass. (57093)**	**1**	**8**	**9**
OR				
90-2102	**Compression Strut - Drvr. (57094)**	**1**	**8**	**9**
90-2103	**Compression Strut - Pass. (57094)**	**1**	**8**	**9**
90-6124	**Hardware Pack Containing:**			
15-11148	**Bushing - Red**	**4**	**8**	**9**
90-2109	**Sleeves, 3/4" x 1/2" x 2 3/4"**	**2**	**8**	**9**
90-6125	**Hardware Pack Containing:**			
70-0504001500	1/2" x 4" USS Gd. 5 Hex Bolt	2	8	9
72-05000100512	1/2" USS Nyloc Nut	2	8	9
73-05000030	1/2" SAE Flat Washer	4	8	9
90-6136	**Bracket Bag Containing:**			
90-1276	**Rear Brake Cable Exten. Brkt.**	**1**	**9**	**10**
90-1278	**Sway Bar Drop Brkt. - Pass.**	**1**	**7**	**9**
90-1279	**Sway Bar Drop Brkt. - Drvr.**	**1**	**7**	**9**
90-1325	**Center Differential Mount**	**1**	**4**	**7**
90-1401	**Differential Drop Plate**	**1**	**5**	**7**
90-55089-5	**Front Brake Drop Down Brkt.**	**2**	**1**	**5**
90-6137	**Hardware Pack Containing:**			
90-1301	Spacer, Locating	8	2	6
90-2161	Spacer, 1" x 1/2" x 5/8"	4	3	6
96-4026	Sleeve, Tapered Spindle	2	6	**8**
90-6138	**Hardware Pack Containing:**			
70-0311001500	5/16" x 1" USS Gd. 5 Hex Bolt	6	7	9
70-0371501500	3/8" x 1 1/2" USS Gd. 5 Hex Bolt	4	1	5
70-0433501500	7/16" x 3 1/2" USS Gd. 5 Hex Bolt	4	3	6
70-0501251500	1/2" x 1 1/4" USS Gd. 5 Hex Bolt	2	5	7
70-0501501500	1/2" x 1 1/2" USS Gd. 5 Hex Bolt	1	4	7
70-0622501500	5/8" x 2 1/2" USS Gd. 5 Hex Bolt	2	6	8
70-0624501500	5/8" x 4 1/2" USS Gd. 5 Hex Bolt	4	2	6
72-03100100512	5/16" USS Nyloc Nut	6	7	9
72-03700100512	3/8" USS Nyloc Nut	4	1	5
72-05000100512	1/2" USS Nyloc Nut	3	4 & 5	7
72-06200100512	5/8" USS Nyloc Nut	6	6	8
72-04300100512	7/16" USS Nyloc Nut	4	3	6
73-03100030	5/16"SAE Flat Washer	14	7	9
73-03700030	3/8" SAE Flat Washer	8	1	5
73-04300030	7/16"SAE Flat Washer	8	3	6
73-05000030	1/2" SAE Flat Washer	8	4 & 5	7
	Loctite, Tube/Red	**1**		

Part #	Description	Qty.	Illus.	Page
	Box 2 of 3-**PN 57093/57094-2**			
90-4009	**Spacer Spindle - Drvr.**	**1**	**6**	**8**
90-4010	**Spacer Spindle - Pass.**	**1**	**6**	**8**
20-65302	**9/16” Nut and Washer Pack**	**1**	**10**	**12**
13-90126	**9/16” U-Bolts (2-1/2” Wide)**	**4**	**10**	**12**
95-350	**3 1/2” Rear Tapered Blocks (9/16”)**	**2**	**10**	**12**
	Box 3 of 3-**PN 57093/57094-3**			
318514	**ES3000 Shocks (Front)**	**2**	**-**	**-**
329506	**ES3000 Shocks (Rear)**	**2**	**-**	**-**

The following parts are available for use with this kit and must be ordered separately.

7212 Stainless Steel Brakelines
57193 Aluminum Skid Plate

Also, check out our outstanding selection of Pro Comp tires to compliment your new installation!

Introduction:

- **This installation requires a professional mechanic!**
- We recommend that you have access to a factory service manual for your vehicle to assist in the disassembly and reassembly of your vehicle. It contains a wealth of detailed information.
- Prior to installation, carefully inspect the vehicle's steering and driveline systems paying close attention to the tie rod ends, ball joints, wheel bearing preload, pitman and idler arm. Additionally, check steering-to-frame and suspension-to-frame attaching points for stress cracks. The overall vehicle must be in excellent working condition. Repair or replace all worn or damaged parts!
- Read the instructions carefully and study the illustrations before attempting installation! You may save yourself a lot of extra work.
- Check the parts and hardware against the parts list to assure that your kit is complete. Separating parts according to the areas where they will be used and placing the hardware with the brackets before you begin will save installation time.
- Check the special equipment list and ensure the availability of these tools.
- Secure and properly block vehicle prior to beginning installation.
- ***ALWAYS*** wear safety glasses when using power tools or working under the vehicle!
- Use caution when cutting is required under the vehicle. The factory undercoating is flammable. Take appropriate precautions. Have a fire extinguisher close at hand.
- Foot pound torque readings are listed on the Torque Specifications chart at the end of the instructions. These are to be used unless specifically directed otherwise. Apply thread lock retaining compound where specified.
- ***Please note that while every effort is made to ensure that the installation of your Pro Comp lift kit is a positive experience, variations in construction and assembly in the vehicle manufacturing process will virtually ensure that some parts may seem difficult to install. Additionally, the current trend in manufacturing of vehicles results in a frame that is highly flexible and may shift slightly on disassembly prior to installation. The use of pry bars and tapered punches for alignment is considered normal and usually does not indicate a faulty product. However, if you are uncertain about some aspect of the installation process, please feel free to call our tech support department at the number listed on the cover page. We do not recommend that you modify the Pro Comp parts in any way as this will void any warranty expressed or implied by the Pro Comp Suspension company.***

Please Note:

- Front end and head light realignment is necessary!
- Speedometer and ABS recalibration will be necessary if larger tires (10% more than stock diameter) are installed.
- Tire and wheel choice is crucial in assuring proper fit, performance and the safety of your Pro Comp equipped vehicle. For this application a wheel not to exceed 8" in width with a maximum backspacing of 3.5" must be used. Diameter of wheel may be any of the following 3 choices, 15", 16", 17". Any other diameter, either smaller or larger, will not be endorsed as acceptable by Pro Comp Suspension and will void any and all warranties, written or implied. In addition, a quality tire of radial design, not to exceed 33" tall x 12.5" wide is recommended.

FRONT INSTALLATION:

PLEASE NOTE:

⇒ **This is a mechanical change a 4" in front, 3" in rear.**

⇒ **Front end alignment is needed after installation, set to factory specs.**

⇒ **Do not adjust torsion bars; leave at factory specs.**

BEFORE YOU BEGIN:

⇒ **Read the instructions and study the illustrations before attempting installation. Separating parts according to the areas where they will be used and placing the hardware with the brackets before you begin will save installation time.**

⇒ **Check the parts and hardware against the parts list to assure that your kit is complete.**

⇒ **Secure and properly block vehicle prior to beginning installation.**

⇒ **Always wear safety glasses when using power tools.**

INSTALLATION INSTRUCTIONS:

1) Place floor jack under front axle and raise vehicle. Place jack stands under frame to support vehicle. Set emergency brake and block rear wheels, in front and behind tires. Remove front wheels.

2) Remove clip from front of brake line and bracket. Cut bracket to center of hole to remove brake line from bracket. Install new brake line drop down bracket **(90-55089-5)** to **OEM** bracket, as shown in ILLUSTRATION 1. Put **3/8"** flat washer on top. Insert **3/8" x 1-1/4"** hex bolt through both brackets and tighten with **3/8"** lock nut on bottom. You may need to reform the brake line slightly. Be sure not to kink or cause any interference of the line. Reinstall **OEM** brake line clip to hose at bracket. See ILLUSTRATION 1.

3) Remove the shocks, sway bar, and bump stops on each side (4 bump stops in total). Remove eccentric adjustment bolt nuts from mounting bracket.

4) Remove eccentric bolts (front and rear) on front lower a-arm.

5) Install the a-arm drop brackets into the **OEM** brackets. Use new **5/8" x 4-1/2"** hex bolts and **5/8"** lock nuts, placing the a-arm drop bracket locating spacers on the outside and the **1"** dia. tube spacer between

ILLUSTRATION 1

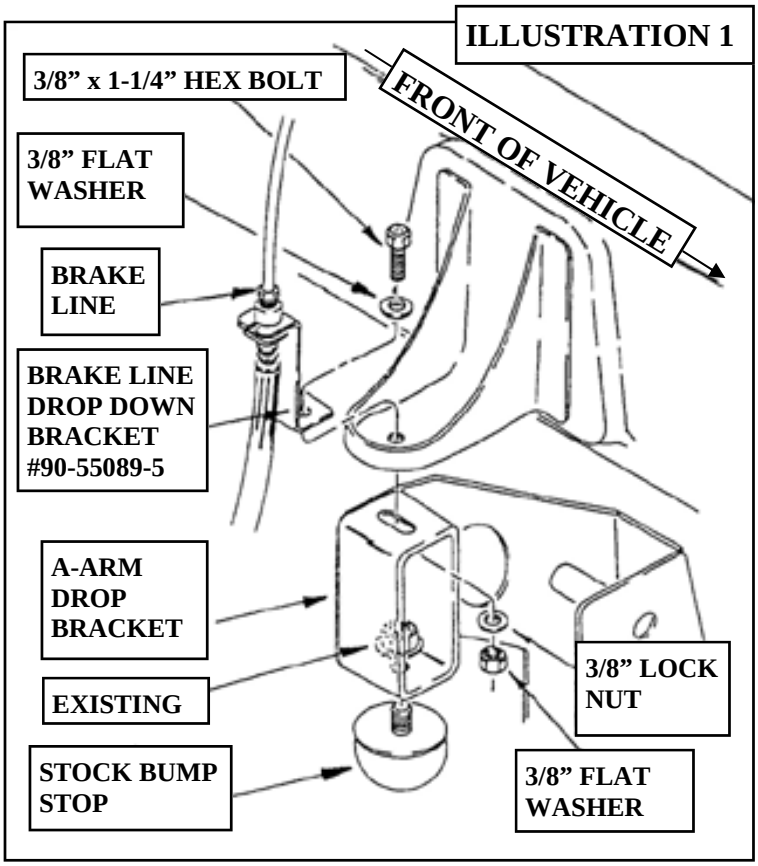
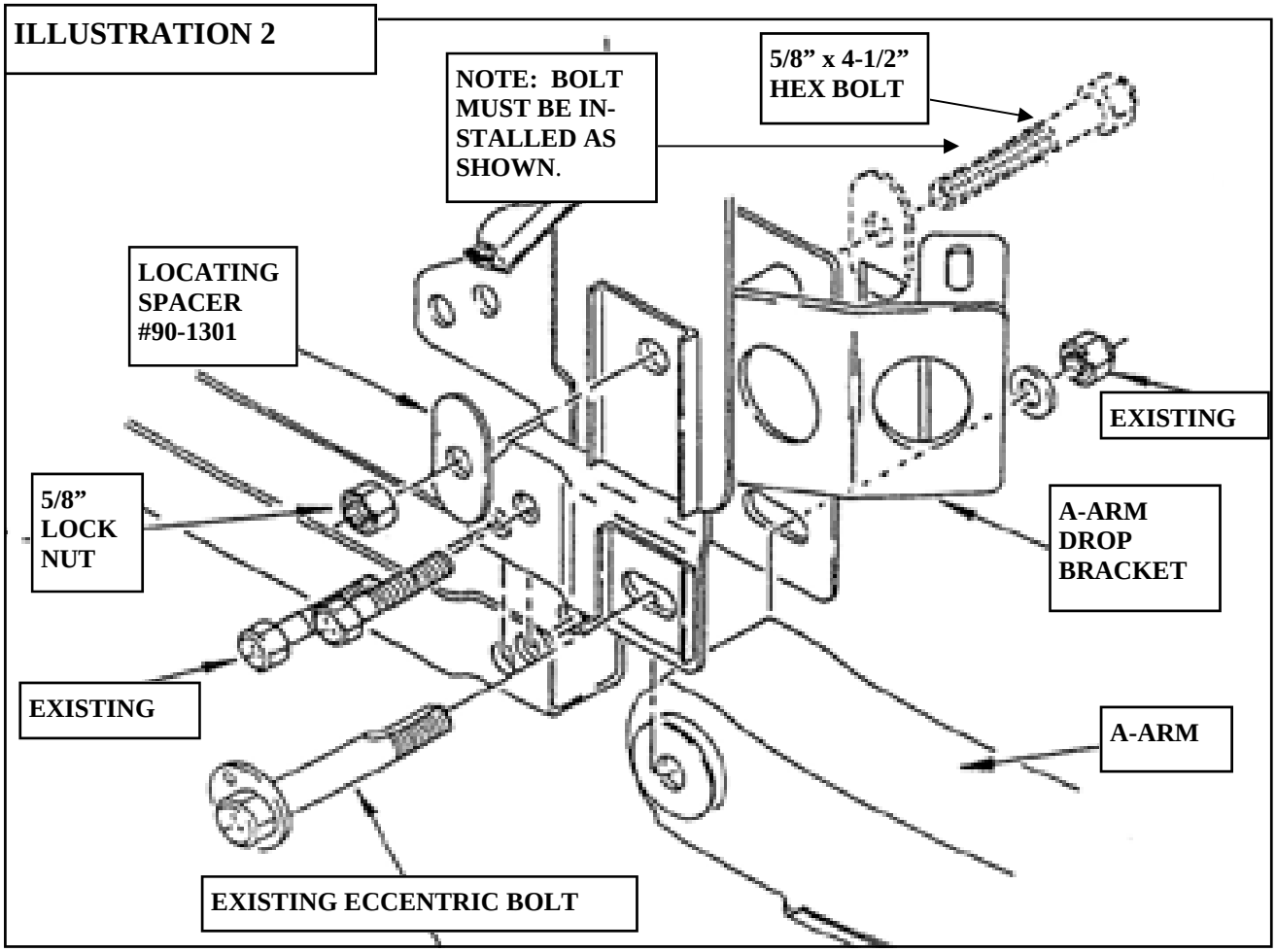


ILLUSTRATION 2



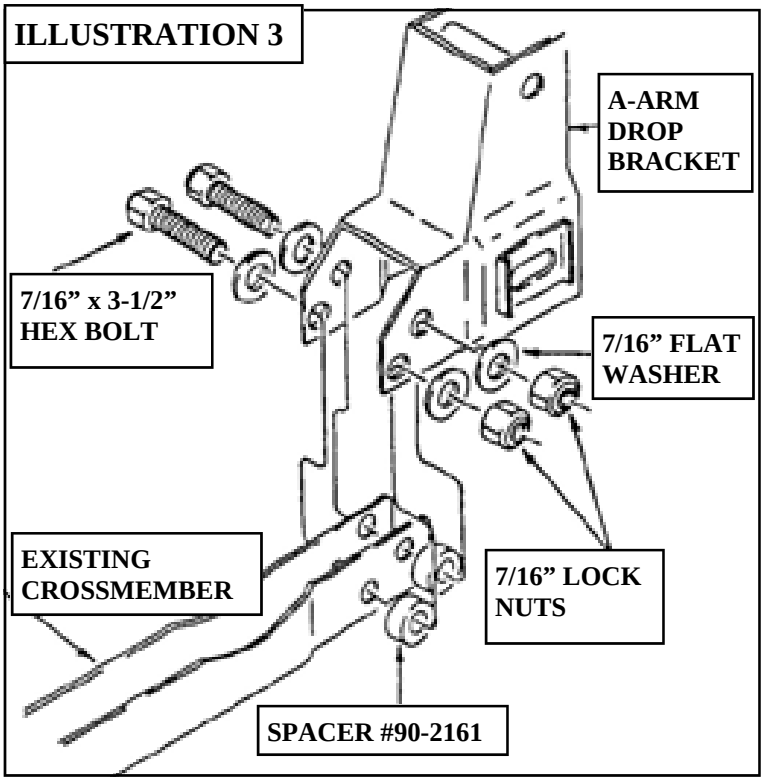
the drop brackets.

NOTE: Locating spacers will go in only one way all 8 spacers are the same. Reinstall front crossmembers with OEM bolts. Hand tighten bolts until brackets are aligned. See ILLUSTRATION 2.

6) Using a straight edge, line up bottom bracket tabs with upper **OEM** tabs. Then tighten bolts. Torque to 100 ft./lbs. (Not crossmember bolts yet). Install **OEM** bolts and nut into front crossmember to front differential. Tighten bolts and then tighten crossmember bolts.

7) Install rear crossmember using **7/16" x 3-1/2"** bolts, **7/16"** flat washers, lock nuts and spacers **(90-2161)**. Torque to 45 ft./lbs. Using a straight edge, align upper tabs with lower tabs and tighten bolts. Torque to 100

ILLUSTRATION 3



ft./lbs. See ILLUSTRATION 3.

8) Install lower a-arms in lower a-arm brackets. Reinstall **OEM** eccentric bolts with hole in **OEM** cam washers at bottom. Install **OEM** nuts and tighten nuts, ***(NOTE: tighten nut, not bolt because cam will not turn inside of tabs).*** Torque to 103 ft./lbs. Refer back to ILLUSTRATION 2, if necessary.

9) Lower differential (keep steady so not to pull out front drive-shaft). Install center differential bracket at rear of front differential as shown in ILLUSTRATION 4.

10) Install differential drop plate using **OEM** bolts in two bottom holes (using loctite). Use **1/2" x 1-1/4"** hex bolts, **1/2"** flat washers and **1/2"** lock nuts in two upper holes. Torque to 70 ft./lbs. See ILLUSTRATION 5.

11) Remove tie rods from steering knuckles. Remove two bolts on back side of spindle which hold the metal bracket for the brake hose.

12) Support lower a-arm with floor jack and separate upper ball joint from spindle. Using file, file corners off of spindle to contour with bottom of new spindle adapter so that the bottom of the new spindle seat surface is in contour with **OEM** spindle top surface. Clean out hole on top of steering knuckle (spindle).

13) Insert tapered spindle sleeve **(96-4026)** with small end going downward. Install **5/8" x 2-1/2"** hex bolt and **5/8"** lock nut as shown in ILLUSTRATION 6. Torque to 100 ft./lbs.

14) Referring again to ILLUSTRATION 6, reinstall brake hose bracket to new spindle with **OEM** bolts (using loctite). Torque to 120 ft./lbs. Insert spindle into upper ball joint; tighten. Torque to

ILLUSTRATION 4

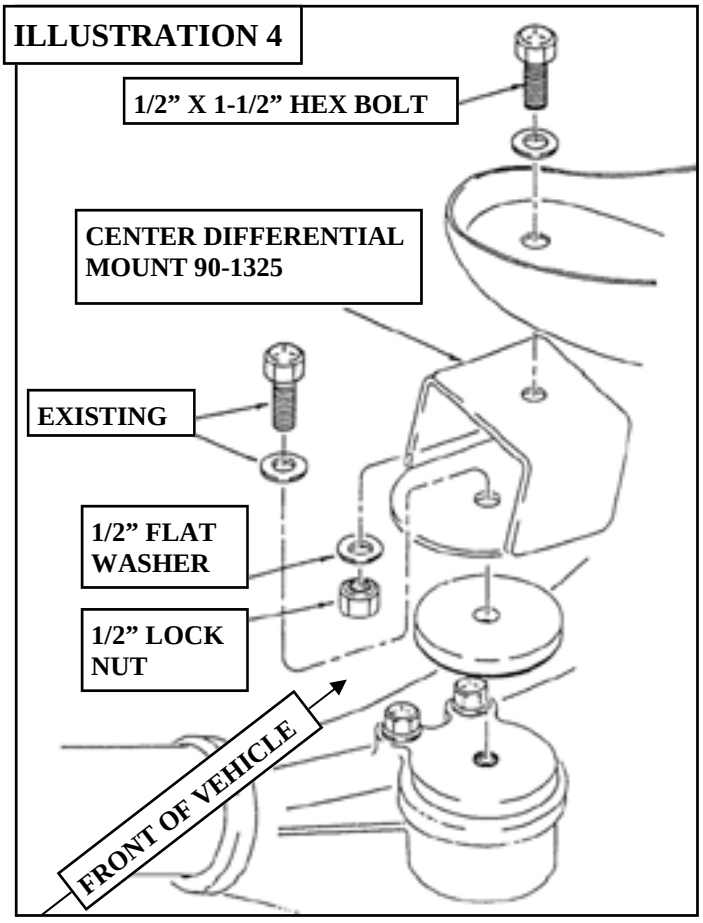
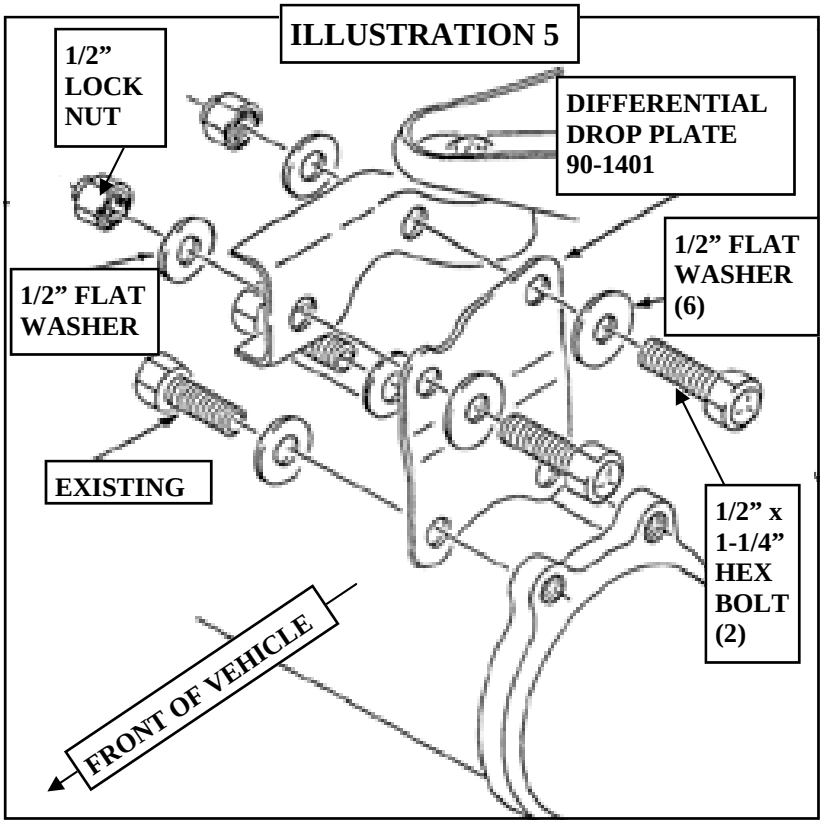
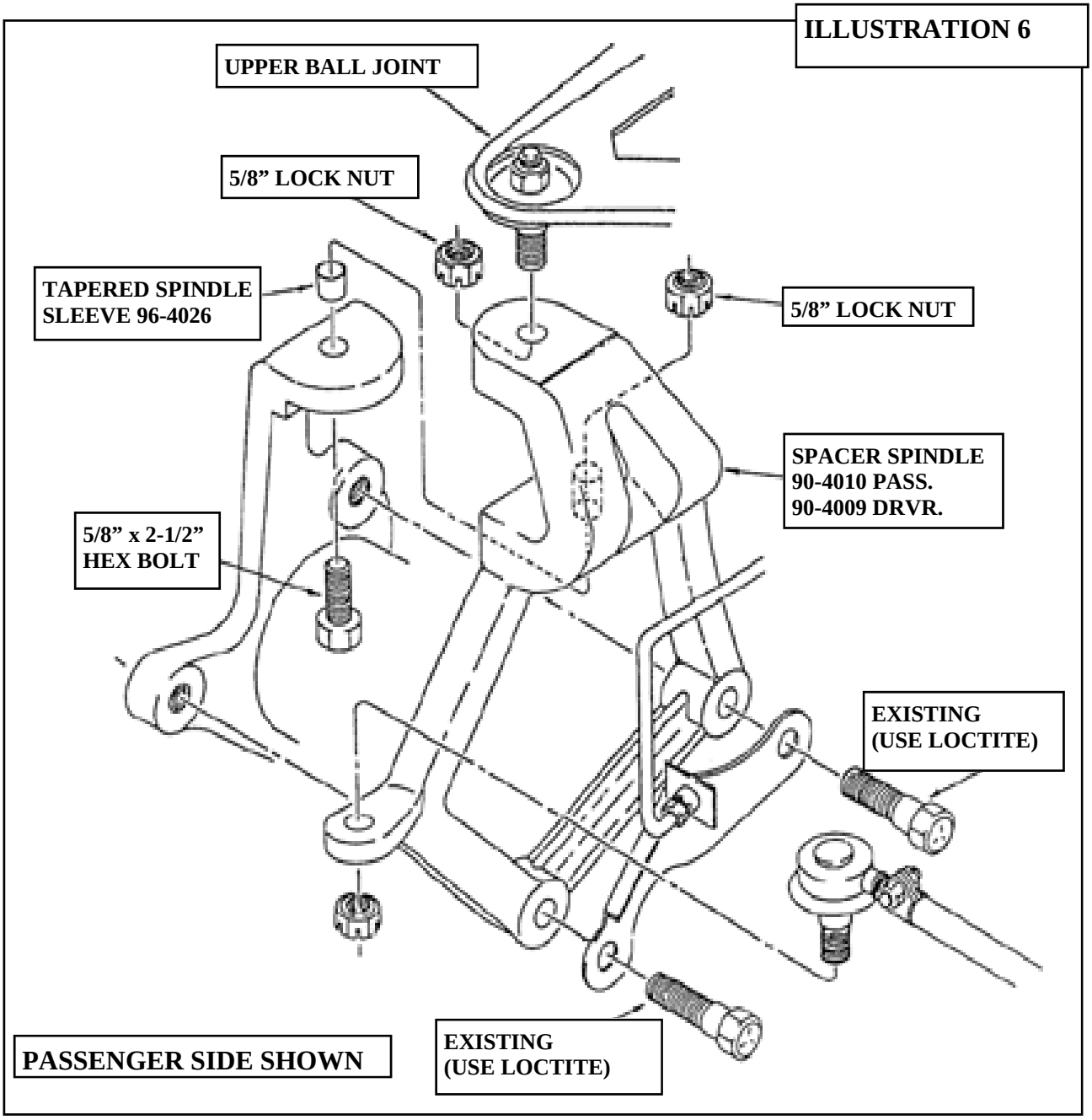


ILLUSTRATION 5





105 ft./lbs. Reinstall the rod. Torque to 67 ft./lbs. Reinstall all cotter pins.

15) Install new long shocks and tighten. **(318514).**

16) Reinstall sway bar with the two sway bar drop down brackets using **OEM** bolts and nuts in top holes, adding a **5/16"** flat washer to the **OEM** flat washers; tighten. Install sway bar to bottom of drop down bracket using **5/16" x 1"** hex bolts, **5/16"** flat washers and **5/16"** lock nuts, tighten. See ILLUSTRATION 7. (Driver side use first forward round hole and rear slotted hole with slant downward, open side inward. Passenger side use first slotted hole and rear round hole with slant going downward, open side inward). Tighten sway bar bracket bolts and sway bar pins in a-arm.

17) Install lower end of the compression

strut into the tabs located on the a-arm drop brackets, using the bushings and hardware provided. Install the upper compression strut mount as shown in ILLUSTRATION 8 using existing hardware.

18) Install the front wheels and lower the vehicle.

NOTE:

⇒ **Measure from center of eccentric adjustment bolt to ground to ensure proper height.**

⇒ **On alignment, both sides inner and outer tie rods may need to be pulled out of adjusting sleeve and cut 1/2" off tie rod ends so proper adjustment can be achieved.**

⇒ **After installation is complete, double check that all nuts and bolts are tight. (Do not retighten nuts and bolts where loctite was used). Re-check periodically.**

ILLUSTRATION 7

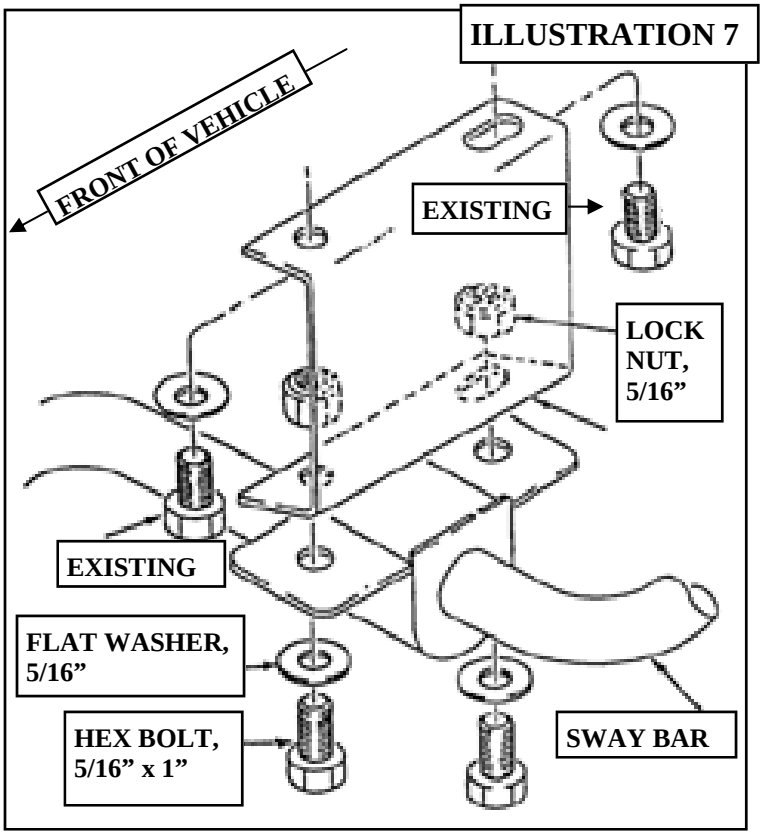
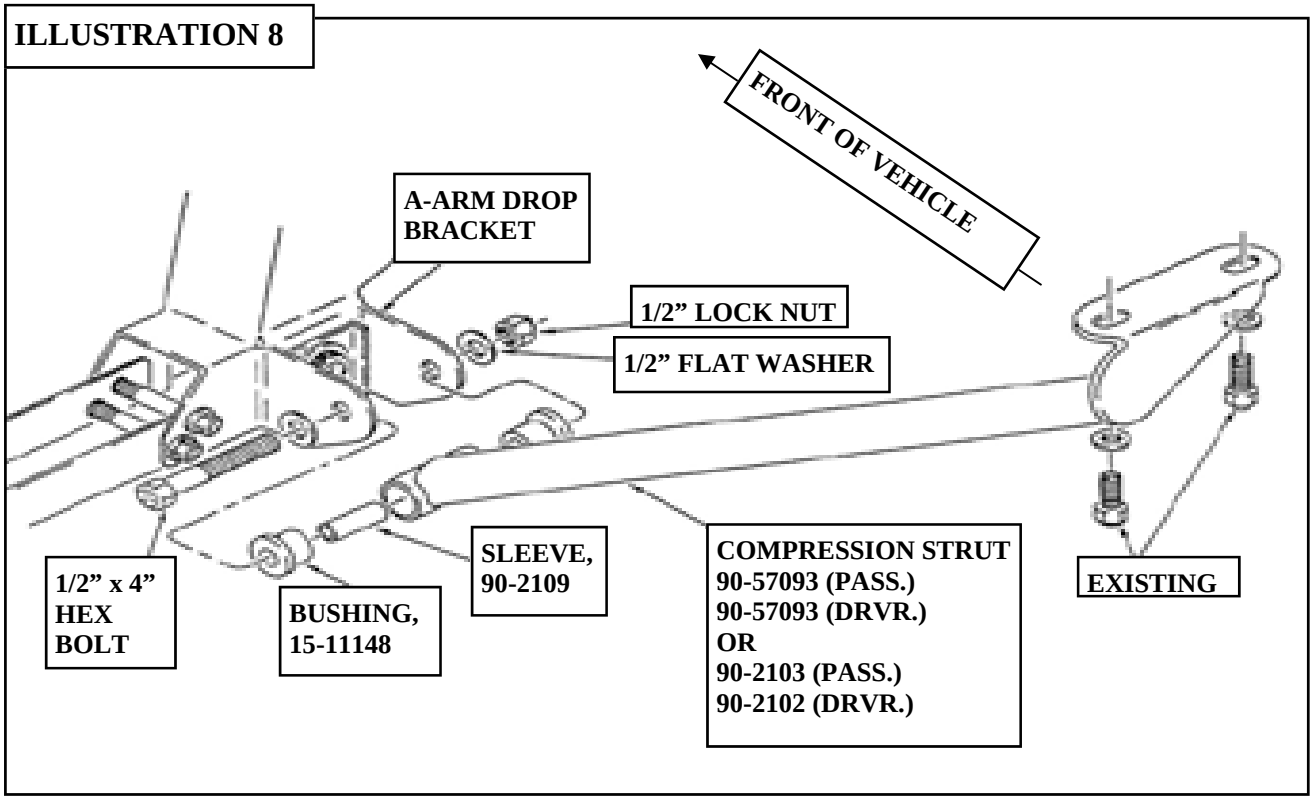


ILLUSTRATION 8



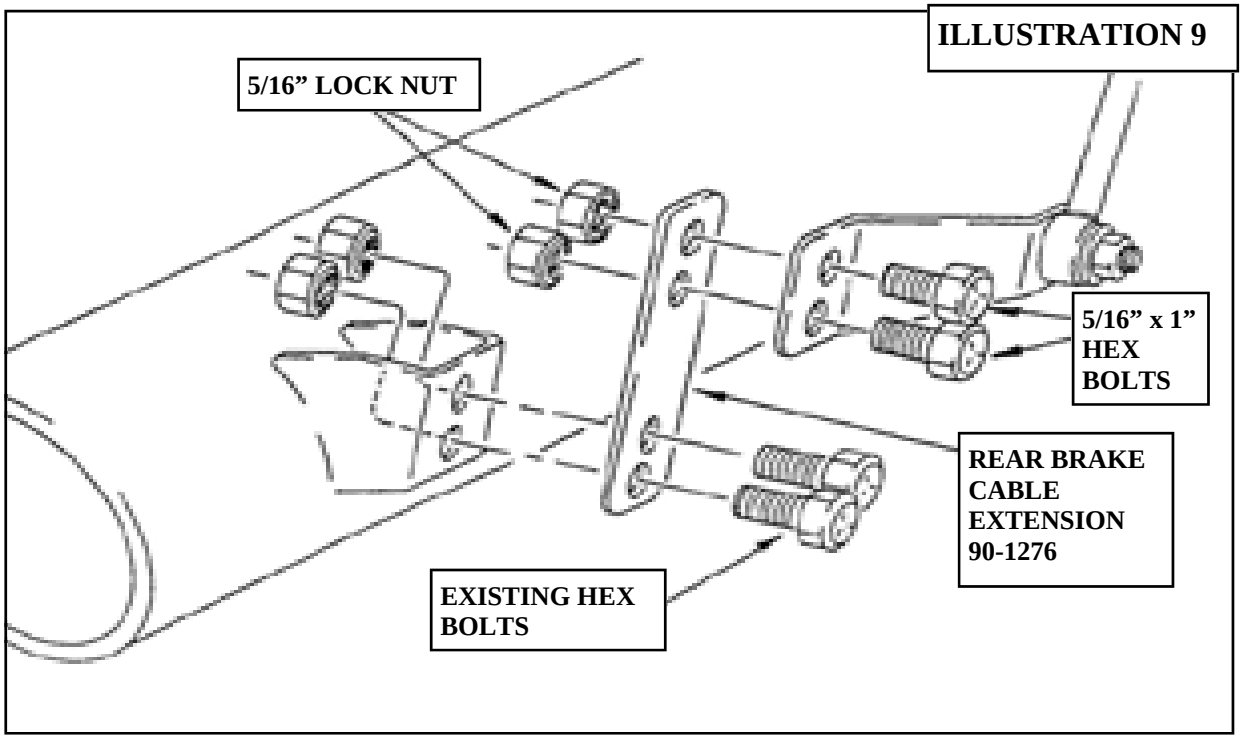


ILLUSTRATION 9
5/16” LOCK NUT
5/16” x 1” HEX BOLTS
REAR BRAKE CABLE EXTENSION 90-1276
EXISTING HEX BOLTS

REAR INSTALLATION:

1) Place floor jack under rear axle and raise vehicle. Place jack stands under frame to support vehicle. Set emergency brake and block front wheel, in front and behind tires. Remove wheels and shocks.

2) Unbolt brake equalizer arm bracket from axle. Install rear brake cable extension **(90-1276)** to axle with **OEM** bolts and tighten. Mount equalized cable bracket to top of extension using **5/16" x 1"** hex bolts and **5/16"** lock nuts and tighten. See ILLUSTRATION 9.

3) Loosen emergency cables by removing cotter pin, pulling pin out from back side of brake plate at adjuster.

4) Remove u-bolts, lower axle and install **3"** tapered blocks with tapered end towards transmission, as shown in ILLUSTRATION 10. Install new u-bolts, washers and nuts and tighten. Reinstall emergency brake cable, keeping cable under spring.

5) Install newer longer shock absorbers. **(329506).**

6) Install the rear wheels and lower the vehicle.

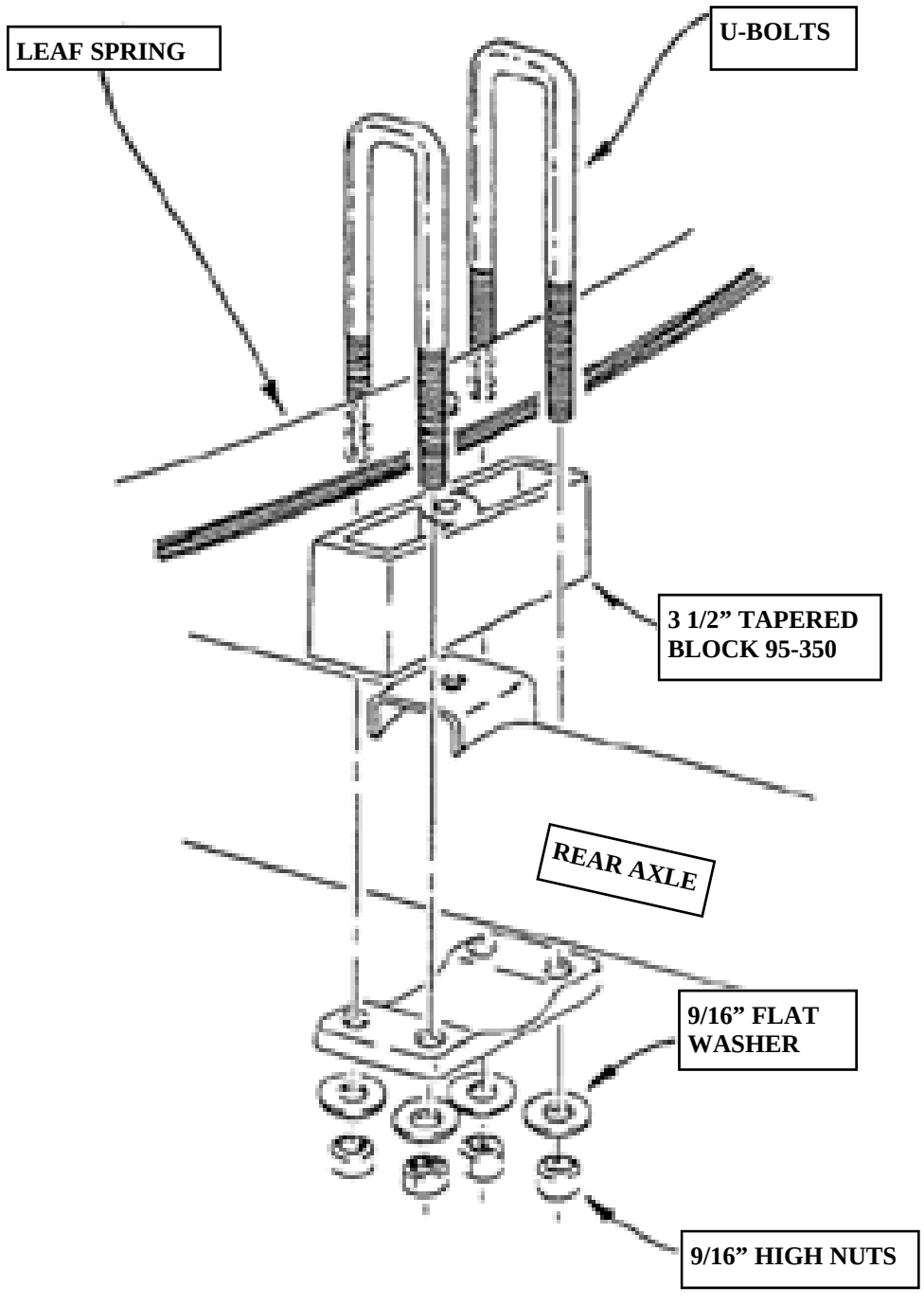
NOTE:

⇒ **After installation is complete, double check that all nuts and bolts are tight. (Do not retighten nuts and bolts where loctite was used.**

TORQUE SPECIFICATIONS:

A-Arm Drop Bracket Bolts.....100ft./lbs.
Crossmember Bolts.....45 ft./lbs.
Eccentric Bolts.....103 ft./lbs.
Center Differential Bolts.....70 ft./lbs.
Pass Differential Brkt Bolt.....70 ft./lbs.
Dvr Differential Brkt Bolt.....70 ft./lbs.
Tapered Spindle Sleeve Bolt.....100 ft./lbs.
Brake Hose Brkt to Spindle.....120 ft./lbs.
Spindle to Upper Ball Joint.....105 ft./lbs.
Tie Rod..... 67 ft./lbs.
U-Bolts.....100 ft./lbs.

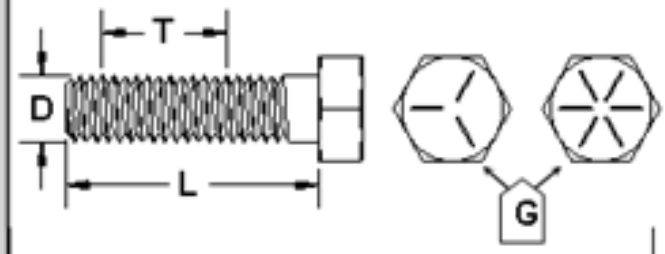
ILLUSTRATION 10



Use this only as a guide for hardware without a called out torque specification in the instruction manual.

Bolt Torque and ID

Decimal System			Metric System			
All Torques in Ft. Lbs. Maximums						
Bolt Size	Grade 5	Grade8	Bolt Size	Class 9.8	Class 10.9	Class 12.9
5/16	15	20	M6	5	9	12
3/8	30	45	M8	18	23	27
7/16	45	60	M10	32	45	50
1/2	65	90	M12	55	75	90
9/16	95	130	M14	85	120	145
5/8	135	175	M16	130	165	210
3/4	185	280	M18	170	240	290



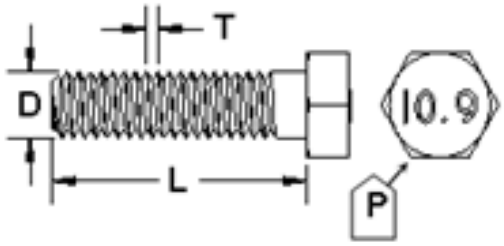
1/2-13x1.75 HHCS

D T L X

Grade 5 **Grade 8**

(No. of Marks + 2)

G = Grade (Bolt Strength)
D = Nominal Diameter (Inches)
T = Thread Count (Threads per Inch)
L = Length (Inches)
X = Description (Hex Head Cap Screw)



M12-1.25x50 HHCS

D T L X

P = Property Class (Bolt Strength)
D = Nominal Diameter (Millimeters)
T = Thread Pitch (Thread Width, mm)
L = Length (Millimeters)
X = Description (Hex Head Cap Screw)

Notice to Owner operator, Dealer and Installer:

Vehicles that have been enhanced for off-road performance often have unique handling characteristics due to the higher center of gravity and larger tires. This vehicle may handle, react and stop differently than many passenger cars or unmodified vehicles, both on and off–road. You must drive your vehicle safely! Extreme care should always be taken to prevent vehicle rollover or loss of control, which can result in serious injury or even death. Always avoid sudden sharp turns or abrupt maneuvers and allow more time and distance for braking! Pro Comp reminds you to fasten your seat belts at all times and reduce speed! We will gladly answer any questions concerning the design, function, maintenance and correct use of our products.

Please make sure your Dealer/Installer explains and delivers all warning notices, warranty forms and instruction sheets included with Pro Comp product.

Application listings in this catalog have been carefully fit checked for each model and year denoted. However, Pro Comp reserves the right to update as necessary, without notice, and will not be held responsible for misprints, changes or variations made by vehicle manufacturers. Please call when in question regarding new model year, vehicles not listed by specific body or chassis styles or vehicles not originally distributed in the USA.

Please note that certain mechanical aspects of any suspension lift product may accelerate ordinary wear of original equipment components. Further, installation of certain Pro Comp products may void the vehicle's factory warranty as it pertains to certain covered parts; it is the consumer's responsibility to check with their local dealer for warranty coverage before installation of the lift.

Warranty and Return policy:

Pro Comp warranties its full line of products to be free from defects in workmanship and materials. Pro Comp's obligation under this warranty is limited to repair or replacement, at Pro Comp's option, of the defective product. Any and all costs of removal, installation, freight or incidental or consequential damages are expressly excluded from this warranty. Pro Comp is not responsible for damages and / or warranty of other vehicle parts related or non-related to the installation of Pro Comp product. A consumer who makes the decision to modify his vehicle with aftermarket components of any kind will assume all risk and responsibility for potential damages incurred as a result of their chosen modifications. Warranty coverage does not include consumer opinions regarding ride comfort, fitment and design. Warranty claims can be made directly with Pro Comp or at any factory authorized Pro Comp dealer.

IMPORTANT! To validate the warranty on this purchase please be sure to mail in the warranty card.

Claims not covered under warranty-

- Parts subject to normal wear, this includes bushings, bump stops, ball joints, tie rod ends and heim joints
  - Discontinued products at Pro Comp's discretion
- Bent or dented product
- Finish after 90 days
- Leaf or coil springs used without proper bump stops
- Light bulbs
- Products with evident damage caused by abrasion or contact with other items
- Damage caused as a result of not following recommendations or requirements called out in the installation manuals
- Products used in applications other than listed in Pro Comp's catalog
- Components or accessories used in conjunction with other manufacturer's systems
- Tire & Wheel Warranty as per Pro Competition Tire Company policy
- Warranty claims without "Proof of Purchase"
- Pro Comp Pro Runner coil over shocks are considered a serviceable shock with a one-year warranty against leakage only. Rebuild service and replacement parts will be available and sold separately by Pro Comp. Contact Pro Comp for specific service charges.
- Pro Comp accepts no responsibility for any altered product, improper installation, lack of or improper maintenance, or improper use of our products.

E-Mail: tech@explorerprocomp.com
Website: www.explorerprocomp.com
Fax: (619) 216-1474
Ph: (619) 216-1444

PLACE

WARRANTY REGISTRATION NUMBER

HERE: _____